الشركة السعودية للكهرباء
Saudi Electricity Company
نعمل بإتقان من أجلكم

TRANSMISSION CONTRACTING DEPARTMENT
SEC Headquarters, Al-Arid
Riyadh, Kingdom of Saudi Arabia

Ref. #: **24- -06073001**
Date: **29/09/2024 G**

To **All PARTICIPATING BIDDERS**

Subject **RFX 4000079290 Localization and Purchase Agreement (LPA) for EHV & HV Power Transformers and Reactors**

Pre-bid Clarifications no. 4 (Questions 69 to 81)

Dear Business Partner,

We are sending to you attached herewith SEC's answers to Bidders' queries.

Please consider these clarifications in preparing your Bid.

Please acknowledge receipt of this Pre-Bid Clarification No. 04 by signing on the space provided below and send this page back to us for our record.

For further information, please contact Mr. Mohammed Abdelaziz at Telephone No. +966118077194 and email address: masaeed2@se.com.sa.

Sincerely,

YAHYA M. SHARAHILI
Manager,
Transmission Contracting Department

Acknowledged receipt:

_____
Name & Signature
Date: _____

RFX. No. 4000079290 Subject: **Pre-Bid Clarification no. 4**			نقل الكهرباء National Grid SA
	Reference in Bid Package	**BIDDER'S QUERY**	**COMPANY (National Grid SA) RESPONSE**
69.	INSTRUCTIONS TO MANUFACTURERS FOR TECHNICAL PROPOSAL (FIRST STAGE BID)	Please clarify what is required from the below: 6.0 NATIONAL PRODUCT VALUE The Bidder shall submit list of Manufactures indicating country of make as mandatory with commercial offer and Equipment/Materials shall be only from the List of COMPANY's Technically Prequalified manufacturers.	The bidder question is not clear kindly elaborate your question.
70.	Pre-bid Clarification No: 1 – Item 41 Response of BEST to SEC	Surge arrester is not applicable for 150/120/100/80/60 MVAR Bus/Line Shunt Reactor(s) HV 380kV with Oil/air or oil/SF6 bushing type. Please confirm.	Bidder understanding is not correct. In case the connection between circuit breakers and Reactors is through GIB/cables, surge arrester will be part of GIS. If the connection between circuit breaker and reactors through bare conductors, Reactor Manufacturer shall provide outdoor Surge arrestor with its support structure near the reactor equipment (not on Brackets).
71.	PTS#24CM335- Page 51/62- Clause #4.2.c.1	There is a huge difference between altitude 1000m and 3000m, this affects many parameters in cooling and transformer design. This difference will deviate technical schedule parameters. Also cost will be affected, thus this item must be cleared when purchase order will be placed by SEC for >1000m transformer/reactor.	Bidders to follow Scope of Work
72.	Pricing attachement – PA- LPA i. For Auto power transformer(s)/Power Tra locations with elevation higher than 1000m the Auto power transformer(s)/ Power (including bushing dimensions), shall be pr specific environment requirements.	For Geographical area mentioned in PA item #b.1.1.4 (Southern operating area-SOA) the requested power transformers assumed to be designated to meet the elevation higher than 1000a.s.l at this area, please confirm our understanding.	Bidder understanding is incorrect.

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73.	PTS#24CM335- General requirement – power transformer test iii. All Special Tests listed under clause 6.3.1 of 5 on all Auto Power Transformers under this Purc tests required per IEC/ANSI shall be carried Power Transformer unit for each type of Purchase Contract.	With reference to pre bid clarifications No.1 clause reference item# 16, all special test shall be carried out on one representative unit for each type, this include the short circuit test for each type? , please confirm/advise.	All Special Tests listed under clause 6.3.1 of 53-TMSS-01, shall be carried out on all Auto Power Transformers/Power Transformers under this Purchase Contract. All other special tests required per IEC/ANSI shall be carried out only on one representative Auto Power Transformer/Power Transformer unit for each type of Auto Power Transformer/Power Transformers under this Purchase Contract.
74.	PTS#24CM335 Pre-bid clarifications - #1	With reference to pre bid clarifications No.1 clause reference item# 22, supply of zigzag transformer or grounding transformer if needed is part from Substation contractor scope and not manufacturer scope, please confirm.	Grounding Transformer requirements shall be as per clause 2.B.10 of the SOW/TS "interface requirements"
75.	PTS- Page 18 , B- Transformer equipment /work interface table row #2 2. 132/115/110kV and 13.8/33kV cables (as applicable) | Provide suitable metallic cable glands with shrouds for sealing all cable entries at the enclosures. Provide flexible links between cables and bushings in LV cable box.	Cable termination kits, splice, sealing end all are Substation contractor scope of supply, please confirm.	As per clause 2.B.2 of the SOW/TS, Transformer Manufacturer shall Provide suitable metallic cable glands with shrouds for sealing all cable entries at the enclosures and Provide flexible links between cables and bushings in MV/LV cable box.

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76.	Pricing Attachment- 	Supply of Cable Termination Kits, splice or sealing end are substation contractor scope, please confirm.	As per clause 2.B.2 of the SOW/TS, Transformer Manufacturer shall Provide suitable metallic cable glands with shrouds for sealing all cable entries at the enclosures and Provide flexible links between cables and bushings in MV/LV cable box.
77.	Pricing Attachment – Item A.1.4 100/80MVA Auto Power Transformer	Kindly advise us the requirement of items listed under A.1.1 which are bushing and TV (#A.1.4.1.1 to A.1.4.1.5) these items will be supplied as **loose part?** Or it will be integral part from the supplied transformer.	Referenced clause is not clear.

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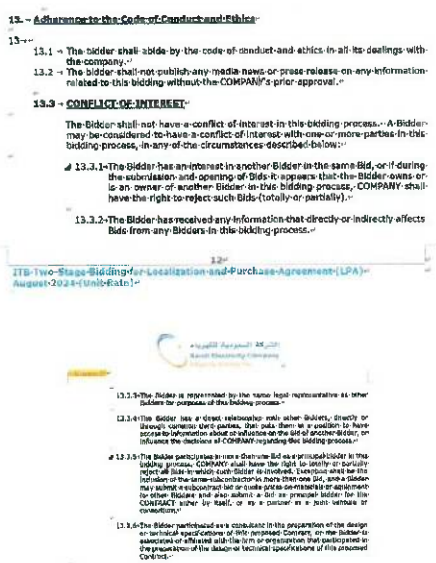
78.	13.3 CONFLICT OF INTEREST from ITB - Two-Stage Bidding Procedure LPA addendum-III	QUOTED:  UNQUOTED: It's known that transformer companies from Chinese cities were invited to participate in the bidding. We hereby ask for your opinion based on the above business clause: Is that allowed or not if they all participate in this project according to the conflict of interest regulations.	Bidder shall inform himself fully. A Bidder may be considered to have a conflict of interest if a Bidder has an interest in another Bidder in the same Bid, or if during the submission and opening of Bids it appears that the Bidder owns or is an owner of another Bidder, or in any of circumstances described in paragraph 13.3 of ITB.

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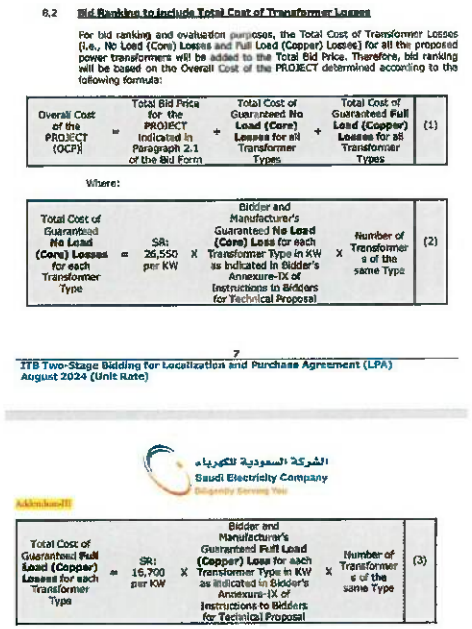
79.	ITB - Two-Stage Bidding Procedure LPA addendum-III/8.2 Bid Ranking to include Total Cost of Transformer Losses	**Quoted:**  8.2 **Bid Ranking to include Total Cost of Transformer Losses** For bid ranking and evaluation purposes, the Total Cost of Transformer Losses (i.e., No Load (Core) Losses and Full Load (Copper) Losses) for all the proposed power transformers will be added to the Total Bid Price. Therefore, bid ranking will be based on the Overall Cost of the PROJECT determined according to the following formula: Overall Cost of the PROJECT (OCP) = Total Bid Price for the PROJECT indicated in Paragraph 2.1 of the Bid Form + Total Cost of Guaranteed No Load (Core) Losses for all Transformer Types + Total Cost of Guaranteed Full Load (Copper) Losses for all Transformer Types (1) Where: Total Cost of Guaranteed No Load (Core) Losses for each Transformer Type = SR: 26,550 per KW x Bidder and Manufacturer's Guaranteed No Load (Core) Loss for each Transformer Type in KW as indicated in Bidder's Annexure-IX of Instructions to Bidders for Technical Proposal x Number of Transformers of the same Type (2) 7 ITB Two-Stage Bidding for Localization and Purchase Agreement (LPA) August 2024 (Unit Rate) الشركة السعودية للكهرباء Saudi Electricity Company Addendum-III Total Cost of Guaranteed Full Load (Copper) Losses for each Transformer Type = SR: 16,700 per KW x Bidder and Manufacturer's Guaranteed Full Load (Copper) Loss for each Transformer Type in KW as indicated in Bidder's Annexure-IX of Instructions to Bidders for Technical Proposal x Number of Transformers of the same Type (3) **Unquoted:** It is specified in the document the total cost of transformer losses, there is no such specification for reactors. Does the total cost of reactor losses not included in the bid ranking of reactors?	As per tender documents only cost of power transformer losses will be considered.

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80.	PRE-BID CLARIFICATIONS RFX 4000079290 Localization and Purchase Contract TR and RE	**Quoted:** Data schedule shall be filled in by Manufacturer as per SOW/TS requirements taking into consideration the following points: 1-High voltage bushings, HV Neutral bushing and LV Neutral Bushing shall be on the TOP and Vertical terminal Take off angle. 2-Tertiary Bushing shall be on the side and Horizontal terminal take off angle. **Unquoted:** For all transformers(380kV, 132kV, 115kV,and 110kV Transformers), whether 13.8kV and 33kV Bushing(oil/air (cable box)) should be on the side and horizontal terminal take off angle, please confirm?	For 24CM1046: The MV cable box shall be at 3 o'clock position when facing HV bushings. 13.8 & 33kV bushing location shall be on the side and horizontal terminal take off angle as per Data schedule issued in Addendum-1. For 24CM335: for 13.8kV and 33kV Bushing (oil/air (cable box)) should be on the side and horizontal terminal take off angle

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81.	EHV SOW - 24CM335-Final &HV SOW - 24CM1046 - Final	**Quoted:** SECTION 2.B.5 5. Surge Arresters — Provide (96, 108 or 120 kV; as applicable) outdoor, station class, metal-oxide Surge Arresters. Provide mounting brackets of the surge arresters adjacent to the HV outdoor air bushings. — Install onto brackets of Auto Power Transformers, terminate, test and commission surge arresters. SECTION 4.C.e e) Auto Power Transformers with outdoor HV Bushings shall be provided with respective voltage of the transformer, as applicable outdoor, station class, metal-oxide Surge Arresters that to be mounted on the designated Auto Power Transformers brackets. SECTION 4.E.ii ii. Metal Oxide Surge Arrester (Class SH) with bracket mounted on tertiary windings. Voltage rating and protective level of arresters shall be as required by insulation coordination study and type of system grounding. **Unquoted:** For all transformers, please confirm whether surge arresters need to be installed on the 132/115/110kV side of the transformer, or if independent AIS surge arresters need to be provided.	For 24CM335: Surge arrester for 132/115/110KV side of Power transformer/Autotransformer shall be as clause C.d, Page 50/62 of the SOW. For 24CM1046: As per clause 4.c.e of the SOW/TS, Power Transformers with outdoor HV Bushings shall be provided with 96, 108 or 120 kV; as applicable outdoor, station class, metal-oxide Surge Arresters that to be mounted on the designated power transformers brackets.